DELPHION

DE 4328619





PRODUCTS RESEARCH

INSIDE DELPHION

Search: Quick/Number Boolean Advanced Der

Tools: Add to Work File: Create new World

Derwent Record

Enough Edit in the Control of the Co

⊠ <u>Em</u>

View: Expand Details Go to: Delphion Integrated View

PDerwent Title:

Prodn. of and partially reinforced cast aluminium alloy component - comprises a reinforcing element formed of a spray-compacted aluminium alloy and

inserted into the casting mould for the component

POriginal Title:

EP0640759A1: Partially reinforced aluminium cast construction part and

method of manufacturing same

My Account

PAssignee:

PEAK WERKSTOFF GMBH Non-standard company

VInventor:

HUMMERT K; SCHATTEVOY R;

PAccession/

& IPC Code:

1995-092386 / 199722

Update:

B22D 19/02 ; F02F 3/00 ; B22D 15/02 ; B22D 19/00 ; B22D

19/14; C23C 4/12; F02F 3/12;

PDerwent Classes:

M22; P53; Q52;

8 Manual Codes:

M22-G03K(Making specific cast products)

P Derwent Abstract:

(EP0640759A) The component (1) consists of an aluminium alloy casting (2) and a reinforcing element (3) which is at least partially surrounded by the basic material of

the casting (2). The reinforcing element (3) consists of a spray-compacted

aluminium alloy which (within the joint regions) forms an integral, firm material bond

with the casting (2).

The method for producing the component (1) includes: (a) forming of a spraycompacted reinforcing element (3) which defines at least a part of the finished component (1); (b) insertion of the element (3) into a casting mould for the component; and (c) filling the remaining mould space with aluminium alloy melt.

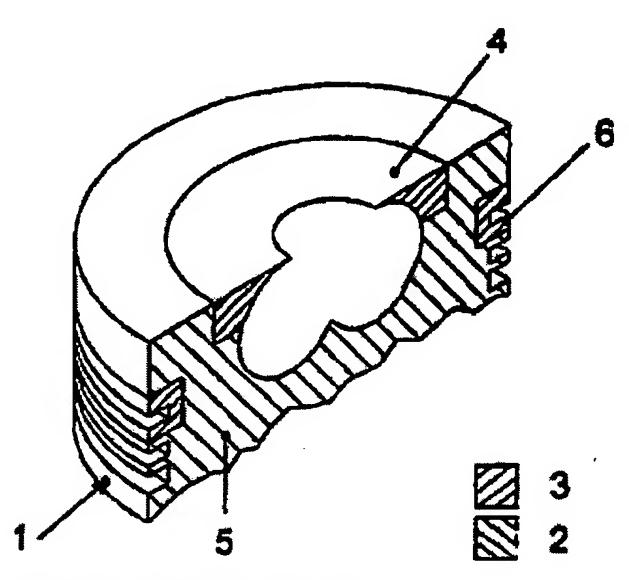
Use - In motor manufacturing industries.

Advantage - Partially reinforced cast aluminium alloy castings, with an integral bond between the cast and reinforcing materials, are produceable in a cost-effectively manner. CLAIMED METHOD - The reinforcing element (3) is produced as an extruded section. Alternatively, it is produced as a forging. Such an element is preheated in the mould. The mould is filled with aluminium alloy melt at a velocity which is sufficient for washing away the oxide layers that have formed on the surface of the reinforcing element. The washing-away process is controlled by the choice of the pouring locations and/or by stirring and/or by creation of eddy currents

by means of induction coils.

পু Images:

BEST AVAILABLE COPY



Dwg.1/5, Dwg.4a/5, Dwg.4a/5

Family:

PDF Patent

Pub. Date Derwent Update Pages Language IPC Code

图 EP0640759A1 * 1995-03-01

199513

F02F 3/00 German 11

Des. States: (R) AT ES FR GB IT NL SE

Local appls.: <u>EP1994000112615</u> Filed:1994-08-12 (94EP-0112615)

ES2098085T3 = 1997-04-16

199722

Spanish F02F 3/00

Local appls.: Based on <u>EP00640759</u> (EP 640759)

EP1994000112615 Filed:1994-08-12 (94EP-0112615)

EP0640759B1 = 1997-03-05

199714

F02F 3/00 11 German

Des. States: (R) AT ES FR GB IT NL SE

Local appls.: <u>EP1994000112615</u> Filed:1994-08-12 (94EP-0112615)

DE4328619C2 = 1995-08-10

199536

German B22D 19/02

Local appls.: <u>DE1993004328619</u> Filed:1993-08-26 (93DE-4328619)

DE4328619A1 = 1995-03-02 199514

German B22D 19/02

Local appls.: <u>DE1993004328619</u> Filed:1993-08-26 (93DE-4328619)

Legal Status:

VINPADOC Show legal status actions

& First Claim:

1. Bauteil (1) bestehend aus einem Al-Gußteil (2) und einem von dessen Grundwerkst-Show all claims zumindest partiell durch Eingießen umschlossenen Verstärkungsteil (3), das aus einem sprühkompaktierten Al-Werkstoff besteht und in den Fügezonen mit dem Al-Gußteil (2) e vollständigen festen Materialverbund eingeht.

Priority Number:

Application Number		Original Title
DE1993004328619	1993-08-26	Partiell verstärktes Al-Gußbauteil und Verfahren zu dessen Herstellung

8 Citations:

PDF	Patent	Original Title
	DE3518058	KOLBEN FUER VERBRENNUNGSMOTOREN

BEST AVAILABLE COPY

Prodn. of and partially reinforced cast aluminium alloy component - comprises a reinforci... Page 3 of 3

M		
M	DE4010474	LEICHTMETALLKOLBEN
%	EP0262869	PARTICULATE AL ALLOY COMPOSITES
M	JP56166368	SLIDING MEMBER
M	JP59231163	NAINENKIKANNOSHIRINDAHETSUDO
	:	Msg: 02Jnl.Ref
		Msg: 2.Jnl.Ref

8 Title Terms:

PRODUCE REINFORCED CAST ALUMINIUM ALLOY COMPONENT COMPRISE REINFORCED ELEMENT FORMING SPRAY COMPACT ALUMINIUM ALLOY INSERT CAST MOULD COMPONENT

Pricing Current charges

Derwent Searches: Boolean | Accession/Number | Advanced

Data copyright Thomson Derwent 2003



Copyright © 1997-2006 The Thor

Subscriptions | Web Seminars | Privacy | Terms & Conditions | Site Map | Contact U